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Qubit Entanglement Driven by Remote Optical Fields¹ MUHAMMED YONAC, University of Rochester — We examine the entanglement between two qubits, supposed to be remotely located and driven by independent quantized optical fields. No interaction is allowed between the qubits, but their degree of entanglement changes as a function of time. We report a collapse and revival of entanglement that is similar to the collapse and revival of single-atom properties in cavity QED.

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